

Unitéd States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspio.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

23460

7590

05/18/2004

LEYDIG VOIT & MAYER, LTD TWO PRUDENTIAL PLAZA, SUITE 4900 180 NORTH STETSON AVENUE CHICAGO, IL 60601-6780 EXAMINER
PHAM, THOMAS K

ART UNIT PAPER NUMBER

2121 DATE MAILED: 05/18/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/641.556	08/17/2000	ANISH K. ARORA	1018.050US2	6351

TITLE OF INVENTION: PATTERN- AND MODEL-BASED POWER LINE MONITORING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	08/18/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

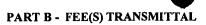
B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.





Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u>

(703) 746-4000

INSTRUCTIONS: This for appropriate. All further con indicated unless corrected to maintenance fee notification	respondence including the I below or directed otherwise	smitting the ISSUI Patent, advance ord in Block 1, by (a)	FEE and PU lers and notific specifying a	JBLICATION FEE (if recation of maintenance feet new correspondence addre	quired). Blocks 1 through 4 s s will be mailed to the current ss; and/or (b) indicating a sep	hould be completed where correspondence address as arate "FEE ADDRESS" for	
	TE ADDRESS (Note: Legibly mark-up	with any corrections or a	se Block I)	Fee(s) Transmittal.	of mailing can only be used f This certificate cannot be used mal paper, such as an assignment ate of mailing or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must	
23460 7590 05/18/2004 LEYDIG VOIT & MAYER, LTD TWO PRUDENTIAL PLAZA, SUITE 4900 180 NORTH STETSON AVENUE CHICAGO, IL 60601-6780				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.			
CINCAGO, IL 000	01-0700					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	F	TRST NAMED	INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/641,556	08/17/2000		ANISH K.	ARORA	1018.050US2	6351	
TITLE OF INVENTION: P.	ATTERN- AND MODEL-B	BASED POWER L	INE MONITO	RING			
APPLN. TYPE	SMALL ENTITY	ISSUE FE	E	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330		\$0	\$1330	08/18/2004	
EXAM	INER	ART UNI	Т	CLASS-SUBCLASS	7		
PHAM, TI	HOMAS K	2121	•	700-019000			
CFR 1.363). U Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. U "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY)							
Please check the appropriate	assignee category or catego	ries (will not be pri	nted on the pat	tent); 🗀 individual 👃	corporation or other private g	roup entity U government	
4a. The following fee(s) are	enclosed:		Payment of F				
☐ Issue Fee				the amount of the fee(s) is a credit card. Form PTO-20			
☐ Publication Fee ☐ Advance Order - # of	Copies				charge the required fee(s), or	credit any overpayment, to	
			Deposit Accou	int Number	d issue fee to the application id	copy of this form).	
(Authorized Signature)		(Date)					
NOTE; The Issue Fee an other than the applicant; interest as shown by the re This collection of informa obtain or retain a benefit application. Confidentialit estimated to take 12 minu completed application for case. Any comments on suggestions for reducing the patent and Trademark 22313-1450. DO NOT \$\infty\$	d Publication Fee (if require a registered attorney or agronds of the United States Patton is required by 37 CFR by the public which is to five the state of the USPTO. Time with the amount of time you this burden, should be sent Office, U.S. Department END FEES OR COMPLE for Patents, Alexandria, Virginal of the USPTO.	ed) will not be accent; or the assigne tent and Trademark 1.311. The inform lie (and by the US) 22 and 37 CFR 1.1 athering, preparing, II vary depending trequire to complete to the Chief Inform of the Chief Inform of Commerce, AITED FORMS TO	e or other par c Office. ation is requir PTO to proces 4. This collect and submittin	red to ss) an ion is g the			

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE(S)



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/641,556	08/17/2000	ANISH K. ARORA	1018.050US2	6351	
23460 7.	590 05/18/2004		EXAMI	NER	
	& MAYER, LTD		PHAM, THOMAS K		
TWO PRUDENTIAL PLAZA, SUITE		00	ART UNIT	PAPER NUMBER	
CHICAGO, IL 606	0601-6780		2121	s /	
			DATE MAILED: 05/18/2004	16	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 111 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 111 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	40
	09/641,556	ARORA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Thomas K Pham	2121	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to <u>amendment filed 3/3/</u>	<u>2004</u> .		
2. X The allowed claim(s) is/are 11-15.			
3. \boxtimes The drawings filed on <u>17 August 2000</u> are accepted by the	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the red	quirements
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 			OTICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the state of the property of of the pr	on's Patent Drawing Review (PTO-6 s Amendment / Comment or in the O s84(c)) should be written on the drawin	ffice action of	back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal Pa 6. ☐ Interview Summary Paper No./Mail Dat 7. ☒ Examiner's Amendr 8. ☒ Examiner's Stateme 9. ☐ Other	(PTO-413), e nent/Comment	·

16/D 5-1204

Application/Control Number: 09/641,556

Art Unit: 2121

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Richard E. Fontana on May 7, 2004.

The application has been amended as follows:

- Delete claims 22-37.

Reasons for Allowance

- 2. Claims 11-15 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

While Mun in view of Russell et al discloses an architecture of a home automation system for automatically executing operations in the home including a power line controller PLC modules for switching power to appliances in response to a control code, an apparatus for monitors and analyzes sample parameters of power line load signal, and finally for detecting superimposed transmissions from the power consuming devices on the power line, which signal problems associated with the power consuming devices.

Neither of these references taken either alone or in combination discloses an architecture for an automation system having all the claimed features of applicant's instant invention,

Page 2

Application/Control Number: 09/641,556

Art Unit: 2121

Page 3

specifically including: "a lookup service maintaining a database of the power consuming devices

including their attributes of device type and physical location, and device objects corresponding

to the power consuming devices including a name for each device object mapped to at least one

address", "a soft state store managing refresh information for the power-consuming devices and

the device objects" and "a publication/subscription eventing component enabling subscriptions to

events related to changes in the refresh information managed by the soft state store". Also, there

is no motivation to combine the Mun reference with the Russell reference to meet these

limitations. It is for these reasons that applicant's invention defines over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner *Thomas Pham*; whose telephone number is (703) 305-7587 and fax number is (703) 746-8874. The examiner can normally be reached on Monday-Thursday and every other Friday from 7:30AM- 5:00PM EST or contact Supervisor, *Mr. Anthony Knight*, can be reached on (703) 308-3179.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Thomas Pham

Patent Examiner

TP

May 11, 2004

Anthony Knight

Supervisory Patent Examiner

Group 3600